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Docket No. 180.00120101IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Zhao Yi WANG) Group Art Unit: 1647
Serial No.: 10/591,199)
Confirmation No.: 4302)
Filed: August 30, 2006)
For: ESTROGEN RECEPTORS AND METHODS OF USE
Patent Application Publication No.: 2007/0258895 A1

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- ☒ Request for Correction and Republication of Patent Application Publication (2 pgs).
- ☒ Copy of the face page of the patent application publication with the requested correction marked (1 pg).
- ☒ Copy of the previously filed Application Data Sheet (2 pgs).
- ☒ Page one of the application as filed (1 pg).

☒ Small Entity Status is entitled to be asserted in the above-identified application.

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Dec. 3, 2007
Date

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Name: Deb Schurmann

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1 of 7

DEC 03 2007PATENT
Docket No. 180.00120101**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Zhao Yi WANG) Group Art Unit: 1647
Serial No.: 10/591,199) Examiner: Shulamith H. Shafer
Confirmation No.: 4302)
Filed: August 30, 2006)
For: ESTROGEN RECEPTORS AND METHODS OF USE
Patent Application Publication No.: 2007/0258895 A1

REQUEST FOR CORRECTION AND REPUBLICATION
OF PATENT APPLICATION PUBLICATION

Mail Stop PGPUB
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This paper is a request for correction and republication of the above-identified Patent Application Publication, which was published on **November 8, 2007**.

Applicant's Representatives identified the following errors made by the U.S. Patent and Trademark Office: on the face page of the publication, in the Related U.S. Application Data section, Provisional Application No. 60/522,067, filed on Aug. 10, 2004 is incorrect. The correct Provisional Application No. is 60/552,067, filed on March 10, 2004.

Enclosed is a copy of the face page of the patent application publication with the requested correction marked. Also enclosed is a copy of the previously filed Application Data Sheet and page one of the application as filed, both showing the correct provisional application number.

DEC 03 2007**Request for Correction and Republication of Patent Application Publication**

Page 2 of 2

Applicant(s): Zhao Yi WANG

Serial No.: 10/591,199

Confirmation No.: 4302

Filed: August 30, 2006

For: ESTROGEN RECEPTORS AND METHODS OF USE

Pursuant to 37 C.F.R. §1.221(b), we request that the error indicated above be corrected, and that the above-identified Patent Application Publication be re-published without additional publication or processing fees.

CERTIFICATE UNDER 37 C.F.R. 1.8:

The undersigned hereby certifies that this paper is being transmitted by facsimile in accordance with 37 CFR §1.6(d) to the Patent and Trademark Office, addressed to: Mail Stop PGPub, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 3rd day of December, 2007, at 3:32 pm (Central Time).

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Respectfully submitted

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(19) **United States**
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(54) **ESTROGEN RECEPTORS AND METHODS OF USE**

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Related U.S. Application Data

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March 10, 2004

60/552,067

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(52) U.S. Cl. 424/9.1; 435/252.3; 435/254.2;
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435/7.93; 514/14; 530/327;
530/350; 530/387.9; 536/23.5

(57) **ABSTRACT**
The present invention provides isolated polypeptides having an amino acid sequence having at least 70% identity to SEQ ID NO:20, wherein the polypeptide has ER-α36 activity. The invention further provides methods for identifying agents that bind to such polypeptides, methods for detecting such polypeptides, and methods for altering the activity of such polypeptides. Also provided are antibodies that specifically bind to an amino acid sequence depicted at SEQ ID NO:1, or an immunogenic fragment thereof, and methods for making and using such antibodies.

APPLICATION DATA SHEET

APPLICATION INFORMATION

Application Type:: REGULAR
Subject Matter:: UTILITY
CD-ROM or CD-R?: NONE
Sequence Submission?: PAPER
Computer Readable Form (CRF)?:: YES
Number of Copies of CRF:: 1
Title:: ESTROGEN RECEPTORS AND
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COPY

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CORRESPONDENCE INFORMATION

Correspondence Customer Number:: 26813

REPRESENTATIVE INFORMATION

Representative Customer Number:: 26813

DOMESTIC PRIORITY INFORMATION

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
This Application	National Stage of	PCT/US05/007857	03/10/05
PCT/US05/007857	119(e) of	60/552,067	03/10/04
PCT/US05/007857	119(e) of	60/643,469	01/13/05

FOREIGN PRIORITY INFORMATION

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PATENT
Docket No. 180.00120201

5 ESTROGEN RECEPTORS AND METHODS OF USE

CONTINUING APPLICATION DATA

COPY

This application claims the benefit of U.S. Provisional Application
Serial No. 60/552,067, filed 10 March 2004, and 60/643,469, filed 13 January
10 2005, each of which is incorporated by reference herein.

Government Funding

The invention described herein was developed with support from the
15 Department of Health and Human Services under Grant Number CA84328. The
U.S. Government has certain rights in the invention.

BACKGROUND OF THE INVENTION

20 Estrogen is a generic term for steroid compounds that are formed in the
ovary, the testis, and possibly the adrenal cortex. Examples of estrogens and
compounds having estrogen activity include diethylstilbestrol, fosfestrol,
hexestrol, polyestradiol phosphate, broparoestrol, chlorotrianisene, dienestrol,
diethylstilbestrol, methestrol, colpormon, equilenin, equilin, estradiol, estriol,
25 estrone, ethinyl estradiol, mestranol, mexestrol, quinestradiol and quincestrol.
Estrogens regulate diverse physiological processes in reproductive tissues and in
mammary, cardiovascular, bone, liver, and brain tissues. Estrogens are also
used in oral contraceptives. Other uses for estrogens include the relief of the
discomforts of menopause, inhibition of lactation, and treatment of
30 osteoporosis, threatened abortion, and various functional ovarian disorders.
Anti-estrogens are used to treat metastatic breast carcinoma and advanced
prostate cancer.